

(19) World Intellectual Property  
Organization  
International Bureau



19 OCT 2004



(43) International Publication Date  
24 March 2005 (24.03.2005)

PCT

(10) International Publication Number  
**WO 2005/026027 A1**

(51) International Patent Classification<sup>7</sup>: **B65H 5/00**,  
B65G 59/00

(21) International Application Number:  
PCT/US2003/039958

(22) International Filing Date:  
16 December 2003 (16.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/497,647 25 August 2003 (25.08.2003) US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant and

(72) Inventor: **HAKALA, John, E.** [US/US]; 57 Golden Glen Drive, Simi Valley, CA 93065 (US).

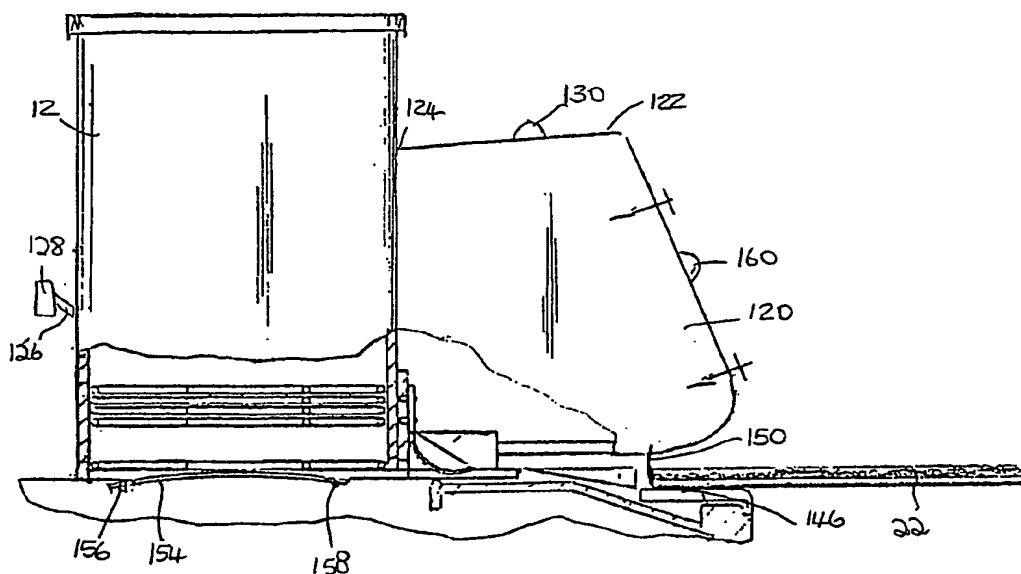
Published:

— with international search report

(74) Agent: **ABRAHAMS, Colin, P.**; Law Offices of Colin P. Abrahams, 5850 Canoga Avenue, Suite 400, Woodland Hills, CA 91367 (US).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CLIP FASTENER



(57) Abstract: A clip fastener (10) comprises a housing and a releasable cartridge (12) to hold a plurality of clips (20). There is a truck (14) having a pair of guide rails (50, 52) to receive the clips (20). There is a mechanism (76, 78) to vary the distance between the guide rails (50, 52). There is a ram (68) to move a clip (20) along the track (14). There is a depressor (90) to slightly open the loops.

WO 2005/026027 A1